

In the claims:

Please cancel claims 1-5 and amend claims 6, 7, and 12 as follows:

1(Cancelled).

2(Cancelled).

3(Cancelled).

4(Cancelled).

5(Cancelled).

6(Currently Amended). A method for obtaining leucocyte components from human blood comprising;

(A) a first step for fracturing cell membranes of leucocytes of human blood by physical means, and

(B) a second step for separating leucocyte components from blood liquid resulting from the first step, said blood liquid containing leucocytes with fractured cell membranes, in order so that separated layers or parts can be collected individually; and

~~The method for obtaining leucocyte components from human blood according to claim 1,~~ further comprising a step for determining therapeutic effects of separated and collected leucocyte components, said step including combining isolated leucocyte components with blood cells obtained from a patient with a pre-determined disease and thereafter observing effects of said isolated leucocyte components when combined with said blood cells.

7(Currently Amended). A method of identifying a therapeutically effective leucocyte component comprising:  
fracturing cell membranes of leucocytes cultured from healthy human blood by physical means and isolating leucocyte components obtained therefrom;

obtaining blood cells from a patient with a pre-determined disease and separating said blood cells into upper layer blood cells and lower layer blood cells;

dividing each of said upper layer blood cells and lower layer blood cells into a plurality of test samples;

adding said isolated leucocyte components to said plurality of test samples thereby to determine the therapeutic effect of each said isolated leucocyte component on said blood cells; and

selecting a leucocyte component therapeutically effective for treating said pre-determined ~~pre-selected~~ disease by identifying the component which, when added to said test samples, results in the least degeneration of erythrocytes and longest erythrocyte life span.

8(Previously Added). The method according to claim 7 wherein the physical means for fracturing cell membranes is a method selected from the group consisting of:

(a) a supersonic method for applying supersonic sound waves selected from between 1 MHz and 50 MHz to said blood liquid containing leucocytes in order to fracture said cell membranes of leucocytes by vibration thereof;

(b) a laser method employing a laser having a power selected from between 10 and 100 mW for irradiating said blood liquid for a time up to about 3 minutes in order to fracture said cell membranes of said leucocytes;

(c) an osmotic pressure method for changing an osmotic pressure of said blood liquid containing leucocytes to fracture said cell membranes;

(d) a freezing and defrosting method for freezing said blood liquid containing leucocytes at a temperature selected from between -5 degrees Celsius to absolute zero and thereafter defrosting said frozen blood liquid at about room temperature to fracture said cell membranes; and

(e) a vacuum method for rapidly-reducing pressure in a vacuum chamber to fracture said cell membranes of said blood liquid containing leucocytes in said vacuum chamber.

9(Previously Added). The method according to claim 7 wherein prior to said cell membrane fracturing step, said leucocytes obtained from healthy human blood are incubated.

10(Previously Added). The method according to claim 9 wherein said leucocytes obtained from healthy human blood are incubated for approximately 48 hours.

11(Previously Added). The method according to claim 9 wherein said upper and lower layer blood cells are incubated prior to adding said isolated leucocyte components.

12(Currently Amended). The method according to claim ~~12~~ 11 wherein said upper and lower layer blood cells are mixed with tissue culture medium and thereafter incubated at approximately 37 degrees Celsius in approximately 5% carbon dioxide.

13(Previously Added). The method according to claim 11 further including an additional step wherein after said isolated leucocyte components are added to said test samples, said test samples, in combination with said isolated leucocyte components, are incubated.